

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/687, 060A
Source: EFWS
Date Processed by STIC: 10/25/04

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 10/25/2004

PATENT APPLICATION: US/10/687,060A

TIME: 15:55:22

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\10252004\J687060A.raw

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4 <110> APPLICANT: Bruck, Claudine
5      Godart, Stephane Andre Georges
6      Marc-Hand, Martine
8 <120> TITLE OF INVENTION: FUSION PROTEINS COMPRISING HIV-1 TAT
9      AND/OR NEF PROTEINS
11 <130> FILE REFERENCE: B45110C1
13 <140> CURRENT APPLICATION NUMBER: 10/687,060A
14 <141> CURRENT FILING DATE: 2003-10-16
16 <150> PRIOR APPLICATION NUMBER: 09/509,239
17 <151> PRIOR FILING DATE: 2000-03-23
19 <150> PRIOR APPLICATION NUMBER: PCT/EP98/06040
20 <151> PRIOR FILING DATE: 1998-09-17
22 <150> PRIOR APPLICATION NUMBER: GB 9720585.0
23 <151> PRIOR FILING DATE: 1997-09-26
25 <160> NUMBER OF SEQ ID NOS: 27
27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 23
31 <212> TYPE: DNA
33 <213> ORGANISM: Artificial Sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: PCR primer
38 <400> SEQUENCE: 1
39 atcgtccatg ggtggcaagt ggt                23
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 23
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial Sequence
46 <220> FEATURE:
47 <223> OTHER INFORMATION: PCR primer
49 <400> SEQUENCE: 2
50 cggctactag tgcagttctt gaa                23
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 24
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: PCR primer
60 <400> SEQUENCE: 3
61 atcgtagtag tgagccagta gatc                24
63 <210> SEQ ID NO: 4
64 <211> LENGTH: 24
65 <212> TYPE: DNA

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66 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:
69 <223> OTHER INFORMATION: PCR primer
71 <400> SEQUENCE: 4
72 cggctactag ttctcttcgg gcct 24
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 23
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: PCR primer
82 <400> SEQUENCE: 5
83 atcgtccatg gagccagtag atc 23
85 <210> SEQ ID NO: 6
86 <211> LENGTH: 441
87 <212> TYPE: DNA
88 <213> ORGANISM: Haemophilus influenzae
90 <400> SEQUENCE: 6
91 atggatccaa aaacttttagc cttttcttta ttagcagctg gcgtactagc aggttgtagc 60
92 agccattcat caaatatggc gaatacccaa atgaaatcag acaaaatcat tattgctcac 120
93 cgtggtgcta gcggttattt accagagcat acgttagaat cttaaagcact tgcttttgca 180
94 caacaggctg attattttaga gcaagattta gcaatgacta aggatggctg tttagtgggt 240
95 attcacgata acttttttaga tggcttgact gatgtgcga aaaaattccc acatcgtcat 300
96 cgtaaagatg gccgttacta tgtcatcgac ttaccttaa aagaaattca aagtttagaa 360
97 atgacagaaa actttgaaac catggccacg tgtgatcaga gctcaactag tggccaccat 420
98 caccatcacc attaacttag a 441
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 144
102 <212> TYPE: PRT
103 <213> ORGANISM: Haemophilus influenzae
105 <400> SEQUENCE: 7
106 Met Asp Pro Lys Thr Leu Ala Leu Ser Leu Leu Ala Ala Gly Val Leu
107 1 5 10 15
108 Ala Gly Cys Ser Ser His Ser Ser Asn Met Ala Asn Thr Gln Met Lys
109 20 25 30
110 Ser Asp Lys Ile Ile Ile Ala His Arg Gly Ala Ser Gly Tyr Leu Pro
111 35 40 45
112 Glu His Thr Leu Glu Ser Lys Ala Leu Ala Phe Ala Gln Gln Ala Asp
113 50 55 60
114 Tyr Leu Glu Gln Asp Leu Ala Met Thr Lys Asp Gly Arg Leu Val Val
115 65 70 75 80
116 Ile His Asp His Phe Leu Asp Gly Leu Thr Asp Val Ala Lys Lys Phe
117 85 90 95
118 Pro His Arg His Arg Lys Asp Gly Arg Tyr Tyr Val Ile Asp Phe Thr
119 100 105 110
120 Leu Lys Glu Ile Gln Ser Leu Glu Met Thr Glu Asn Phe Glu Thr Met
121 115 120 125
122 Ala Thr Cys Asp Gln Ser Ser Thr Ser Gly His His His His His
123 130 135 140

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126 <210> SEQ ID NO: 8
127 <211> LENGTH: 648
128 <212> TYPE: DNA
129 <213> ORGANISM: Human Immunodeficiency Virus
131 <400> SEQUENCE: 8
132 atgggtggca agtgggtcaaa aagtagtggtg gttggatggc ctactgtaag ggaaagaatg 60
133 agacgagctg agccagcagc agatgggggtg ggagcagcat ctcgagacct ggaaaaacat 120
134 ggagcaatca caagtagcaa tacagcagct accaatgctg cttgtgcctg gctagaagca 180
135 caagaggagg aggaggtggg ttttccagtc acacctcagg tacctttaag accaatgact 240
136 tacaaggcag ctgtagatct tagccacttt ttaaaagaaa agggggggact ggaagggcta 300
137 attcactccc aacgaagaca agatatacctt gatctgtgga tctaccacac acaaggctac 360
138 ttccttgatt ggcagaacta cacaccaggg ccaggggtca gatateccact gaccttttga 420
139 tgggtgtaca agctagtacc agttgagcca gataaggtag aagaggccaa taaaggagag 480
140 aacaccagct tgttacaccc tgtgagcctg catggaatgg atgaccctga gagagaagtg 540
141 ttagagtgga ggtttgacag ccgcctagca tttcatcacg tggcccgaga gctgcatccg 600
142 gagtacttca agaactgcac tagtggccac catcaccatc accattaa 648
144 <210> SEQ ID NO: 9
145 <211> LENGTH: 215
146 <212> TYPE: PRT
147 <213> ORGANISM: Human Immunodeficiency Virus
149 <400> SEQUENCE: 9
150 Met Gly Gly Lys Trp Ser Lys Ser Ser Val Val Gly Trp Pro Thr Val
151 1 5 10 15
152 Arg Glu Arg Met Arg Arg Ala Glu Pro Ala Ala Asp Gly Val Gly Ala
153 20 25 30
154 Ala Ser Arg Asp Leu Glu Lys His Gly Ala Ile Thr Ser Ser Asn Thr
155 35 40 45
156 Ala Ala Thr Asn Ala Ala Cys Ala Trp Leu Glu Ala Gln Glu Glu Glu
157 50 55 60
158 Glu Val Gly Phe Pro Val Thr Pro Gln Val Pro Leu Arg Pro Met Thr
159 65 70 75 80
160 Tyr Lys Ala Ala Val Asp Leu Ser His Phe Leu Lys Glu Lys Gly Gly
161 85 90 95
162 Leu Glu Gly Leu Ile His Ser Gln Arg Arg Gln Asp Ile Leu Asp Leu
163 100 105 110
164 Trp Ile Tyr His Thr Gln Gly Tyr Phe Pro Asp Trp Gln Asn Tyr Thr
165 115 120 125
166 Pro Gly Pro Gly Val Arg Tyr Pro Leu Thr Phe Gly Trp Cys Tyr Lys
167 130 135 140
168 Leu Val Pro Val Glu Pro Asp Lys Val Glu Glu Ala Asn Lys Gly Glu
169 145 150 155 160
170 Asn Thr Ser Leu Leu His Pro Val Ser Leu His Gly Met Asp Asp Pro
171 165 170 175
172 Glu Arg Glu Val Leu Glu Trp Arg Phe Asp Ser Arg Leu Ala Phe His
173 180 185 190
174 His Val Ala Arg Glu Leu His Pro Glu Tyr Phe Lys Asn Cys Thr Ser
175 195 200 205
176 Gly His His His His His His
177 210 215

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180 <210> SEQ ID NO: 10
181 <211> LENGTH: 288
182 <212> TYPE: DNA
183 <213> ORGANISM: Human Immunodeficiency Virus
185 <400> SEQUENCE: 10
186 atggagccag tagatcctag actagagccc tggaagcatc caggaagtca gcctaaaact 60
187 gcttgtacca attgctattg taaaaagtgt tgctttcatt gccagtttg ttccataaca 120
188 aaagccttag gcattccta tggcaggaag aagcggagac agcgacgaag acctcctcaa 180
189 ggcagtcaga ctcattcaagt ttctctatca aagcaacca cctcccaatc ccgaggggac 240
190 ccgacaggcc cgaaggaaac tagtggccac catcaccatc accattaa 288
192 <210> SEQ ID NO: 11
193 <211> LENGTH: 95
194 <212> TYPE: PRT
195 <213> ORGANISM: Human Immunodeficiency Virus
197 <400> SEQUENCE: 11
198 Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser
199 1 5 10 15
200 Gln Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe
201 20 25 30
202 His Cys Gln Val Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly
203 35 40 45
204 Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln Gly Ser Gln Thr
205 50 55 60
206 His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Arg Gly Asp
207 65 70 75 80
208 Pro Thr Gly Pro Lys Glu Thr Ser Gly His His His His His His
209 85 90 95
212 <210> SEQ ID NO: 12
213 <211> LENGTH: 909
214 <212> TYPE: DNA
215 <213> ORGANISM: Human Immunodeficiency Virus
217 <400> SEQUENCE: 12
218 atgggtggca agtgggtcaaa aagtagtgtg gttggatggc ctactgtaag ggaaagaatg 60
219 agacgagctg agccagcagc agatgggggtg ggagcagcat ctcgagacct ggaaaaacat 120
220 ggagcaatca caagtagcaa tacagcagct accaatgctg cttgtgctg gctagaagca 180
221 caagaggagg aggaggtggg ttttccagtc acacctcagg tacctttaag accaatgact 240
222 tacaaggcag ctgtagatct tagccacttt ttaaaagaaa aggggggact ggaagggcta 300
223 attcactccc aacgaagaca agatatacct gatctgtgga tctaccacac acaaggctac 360
224 ttccctgatt ggcagaacta cacaccaggg ccaggggtca gatataccact gacctttgga 420
225 tgggtgctaca agctagtacc agttgagcca gataaggtag aagaggccaa taaaggagag 480
226 aacaccagct tgttacaccc tgtgagcctg catggaatgg atgaccctga gagagaagtg 540
227 ttagagtggg ggtttgacag ccgcctagca tttcatcacg tggcccgaga gctgcatccg 600
228 gagtacttca agaactgcac tagtgagcca gtagatccta gactagagcc ctggaagcat 660
229 ccaggaagtc agcctaaaac tgcttgatcc aattgctatt gtaaaaagtg ttgctttcat 720
230 tgccaagtgt gtttcataac aaaagcctta ggcattcctt atggcaggaa gaagcggaga 780
231 cagcgacgaa gacctcctca aggcagtcag actcatcaag tttctctatc aaagcaacc 840
232 acctcccaat ccgaggggga cccgacaggc ccgaaggaaa ctagtggcca ccatcaccat 900
233 caccattaa 909
235 <210> SEQ ID NO: 13

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236 <211> LENGTH: 302
237 <212> TYPE: PRT
238 <213> ORGANISM: Human Immunodeficiency Virus
240 <400> SEQUENCE: 13
241 Met Gly Gly Lys Trp Ser Lys Ser Ser Val Val Gly Trp Pro Thr Val
242   1           5           10           15
243 Arg Glu Arg Met Arg Arg Ala Glu Pro Ala Ala Asp Gly Val Gly Ala
244           20           25           30
245 Ala Ser Arg Asp Leu Glu Lys His Gly Ala Ile Thr Ser Ser Asn Thr
246           35           40           45
247 Ala Ala Thr Asn Ala Ala Cys Ala Trp Leu Glu Ala Gln Glu Glu Glu
248   50           55           60
249 Glu Val Gly Phe Pro Val Thr Pro Gln Val Pro Leu Arg Pro Met Thr
250  65           70           75           80
251 Tyr Lys Ala Ala Val Asp Leu Ser His Phe Leu Lys Glu Lys Gly Gly
252           85           90           95
253 Leu Glu Gly Leu Ile His Ser Gln Arg Arg Gln Asp Ile Leu Asp Leu
254           100          105          110
255 Trp Ile Tyr His Thr Gln Gly Tyr Phe Pro Asp Trp Gln Asn Tyr Thr
256           115          120          125
257 Pro Gly Pro Gly Val Arg Tyr Pro Leu Thr Phe Gly Trp Cys Tyr Lys
258           130          135          140
259 Leu Val Pro Val Glu Pro Asp Lys Val Glu Glu Ala Asn Lys Gly Glu
260 145           150          155          160
261 Asn Thr Ser Leu Leu His Pro Val Ser Leu His Gly Met Asp Asp Pro
262           165          170          175
263 Glu Arg Glu Val Leu Glu Trp Arg Phe Asp Ser Arg Leu Ala Phe His
264           180          185          190
265 His Val Ala Arg Glu Leu His Pro Glu Tyr Phe Lys Asn Cys Thr Ser
266           195          200          205
267 Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser Gln
268           210          215          220
269 Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe His
270 225           230          235          240
271 Cys Gln Val Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly Arg
272           245          250          255
273 Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln Gly Ser Gln Thr His
274           260          265          270
275 Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Arg Gly Asp Pro
276           275          280          285
277 Thr Gly Pro Lys Glu Thr Ser Gly His His His His His His
278           290          295          300
281 <210> SEQ ID NO: 14
282 <211> LENGTH: 1029
283 <212> TYPE: DNA
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: Fusion construct
289 <400> SEQUENCE: 14

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VERIFICATION SUMMARY

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